



**RAMAGYA SCHOOL, NOIDA**  
VIII/Science/2017-18  
OLYMPIAD PRACTICE WORKSHEET

1. Project - Tiger means.

- a. Hunting of tigers
- b. Rearing of tigers
- c. Survival & maintenance of tigers
- d. All of these

2. Red data book keeps the record of

- a. Endangered species
- b. Sanctuary
- c. Plants
- d. Animals

3. The minimum distance between the source and the reflector, so that an echo is heard is approximately equal to \_\_\_\_\_.

- a. 10 m
- b. 17 m
- c. 34 m
- d. 50 m

4. The relation between wave velocity 'v', frequency 'f', and wavelength 'λ' is \_\_\_\_\_.

- a.  $v = \frac{f}{\lambda}$
- b.  $v = f\lambda$
- c.  $v = \frac{\lambda}{f}$
- d.  $v = \frac{1}{f\lambda}$

5. Which of the following is not a characteristic of a musical sound?

- a. Pitch
- b. Wavelength
- c. Quality
- d. Loudness

6. Sound waves are

- a. Longitudinal
- b. Transverse
- c. partly longitudinal and partly transverse
- d. sometimes longitudinal and sometimes transverse

7. The time period of a vibrating body is 0.05 s. The frequency of waves it emits is
- 5 Hz
  - 20 Hz
  - 200 Hz
  - 2 Hz
8. Vibrations inside the ear are amplified by the three bones namely the \_\_\_\_\_ in the middle ear.
- hammer, anvil and stirrup
  - hammer, anvil and pinna
  - hammer, cochlea and stirrup
  - auditory bone, anvil and stirrup
9. Name the comet which appears after every 76 years:
- Hallet's
  - Meteor
  - Halley's
  - Pole star
10. The first Indian satellite:
- Kalpana-1
  - Aryabhata
  - INSAT
  - EDUSAT
11. The un-burnt piece of meteor which reaches the surface of the earth:
- Celestial bodies
  - Meteorites
  - Comets
  - Stars
12. One light year is equal to:
- $18 \times 10^6$  km
  - $40.67 \times 10^{12}$  km
  - $9.46 \times 10^{12}$  km
  - 150,000,000 km
13. Jupiter has a thick atmosphere of \_\_\_\_\_ which reflects most of the sun light falling on it.
- Oxygen
  - Helium
  - Nitrogen
  - Hydrogen

14. In 2006, the IAU adopted a new definition of a planet. IAU stands for \_\_\_\_\_.

- a. Indian Astronomical Union
- b. International Astronomy of Universe
- c. International Astronomical Union
- d. Indian Astronomy of Universe

15. The axis of the Earth is inclined to its orbital plane at an angle of:

- a.  $23.5^\circ$
- b.  $66.5^\circ$
- c.  $25.3^\circ$
- d.  $65.5^\circ$

16. Coke is used in the manufacturing of

- a. Lead
- b. Iron
- c. Steel
- d. Copper

17. Which is an almost pure form of carbon?

- a. Coke
- b. Coal tar
- c. Coal gas
- d. None of these

18. The layer containing petroleum oil & gas is

- a. Above that of water
- b. Below water
- c. Between water and sand
- d. Below sand

19. Refining is

- a. Extracting petroleum gas
- b. Separation of various fraction of petroleum
- c. Heating of coal
- d. Sedimentation of fossil fuel

20. Heavy motor vehicles like trucks run on

- a. Petrol
- b. Diesel
- c. Coal
- d. Coal tar